WE CLAIM:

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- 1. An isolated purified peptide antigen comprising all or part of the amino acid sequence of a species-specific secreted blood-stage protein from *P. vivax* or fragment thereof, said protein being present in detectable amounts in biological samples of individuals infected with *P. vivax* malaria, said antigen having the property of eliciting antibodies that recognize said protein.
- 2. The peptide antigen of claim 1 wherein said blood stage protein is PvESR-1.
- 3. The peptide antigen of claim 2, said antigen being 2 PvESP-1.

 An isolated purified polypeptide comprising the
 - 4. An isolated purified polypeptide comprising the amino acid sequence of SEQ ID No. : 2 or immunogenic *P. vivax* species-specific fragments thereof.
- 5. A DNA sequence selected from the group consisting of (i) DNA which encodes all or part of the amino acid sequence of SEQ ID No.: 2 said DNA encoding a peptide antigen according to claim 1; and (ii) DNA hybridizing therewith under stringent conditions.
 - 1 6. The peptide antigen of claim 1 wherein said blood 2 stage protein is PvESP-2.
 - 7. The peptide antigen of claim 6, said antigen being 2 PvESP-2.
 - 8. Isolated and purified antibody immunochemically reactive with a peptide antigen according to claim 1.

- The antibody of claim 8 which is monoclonal. 1 9\ 1 10. Isolated and purified antibody immunochemically 2 reactive with a peptide antigen according to claim 2. The antibody of claim 10 which is monoclonal. 1 11. 1 12. Isolated and purified antibody immunochemically reactive with a peptide antigen according to claim 6. 1 13. The antibody of claim 12 which is monoclonal. A monoclonal antibody selected from the group 1 2 consisting of 1D11.G10 produced by the hybridoma ATCC accession 3 number _____; 3D4.E2 produced by the hybridoma ATCC accession 4 number ; and 1A3.B4\ produced by the hybridoma ATCC [75 accession number ζÑ1 An assay for the selective identification of P. 15. **L !** 2 vivax malarial infection in a susceptible mammal which comprises ^[]3 the steps of: contacting a biological sample known to come []4 (a) in contact with erythrocytes of said mammal with an antibody that ;<u>-</u>5 |≟6 binds a P. vivax specific epitope of a species-specific secreted []7 blood-stage protein from P. vivax to form an antibody-antigen **[]** 8 complex; 9 (b) detecting said complex which indicates 10 whether said mammal is infected by P. vivax. The assay of claim 14 wherein said antibody is 1 16. 2 conjugated to a reporter substance. The assay of claim 16, wherein said reporter 1 17.
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substance is selected from the group consisting of enzymatic

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- 3 conjugates, dyes, adioisotopes, fluorescence, and particulate 4 labels.
- 18. The reporter substance of claim 17, wherein the particulate label is selected from the group consisting of liposome, latex, polystyrene, colloid metal and colloid nonmetal labels.
- 19. The assay of claim 14 wherein said contacting step 2 is conducted in the co-presence of a known amount of labelled 3 peptide antigen comprising all or part of the sequence of said 4 secreted protein, said labelled antigen (i) also being recognized 5 by said antibody and (ii) competing with said secreted protein 6 for binding to said antibody; and said detecting step comprises 7 detecting said labelled antigen bound to said antibody or 8 detecting unbound labelled antigen.
 - 20. The assay of claim 14 wherein said protein is PvESP-1 or PvESP-2.
 - 21. The assay of claim 14 wherein said protein and said antigen are both PvESP-1 or are both PvESP-2.

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